Planning & Scheduling Diploma - Workshop (CPM)

Example

The following table shows the list of activities encountered in the construction of one floor building:

Activity	Description	Predecessor	Duration
A	Mobilization	———	3
B	Underground Utilities	A	3
C	Foundations	A	2
D	Block walls external	C	6
E	Floor slab	C	3
F	Interior framing	D,E	2
G	Rough plumb	B	3
H	Roof framing	F	4
I	Finish plumb	F,G	2
J	Roofing	H	2
K	Rough electric	J	2
L	Finish electric	K	2
M	Wall finishes	I,L	5
N	Ceiling finishes	I,L	3
O	Carpet & Tile	M,N	2

A) Draw the AON network for this Construction Job.
B) Calculate the early times and late time for all activities.
C) Calculate the Total Float for all activities.
D) Determine the Critical Path for the network.